

PERCEPTION[®] MAT-PAC

Tool Room Control

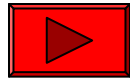
A Training Tutorial

This training tutorial outlines the basic features of the *PERCEPTION* system for managing tools.

It is a supplement to the user manual entitled “*PERCEPTION Material Planning, Purchasing & Inventory Control*,” which provides more details for the user.

Before using this tutorial, the user should first view the preliminary *PERCEPTION* training tutorial, “Getting Started.”

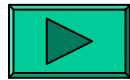
Training Directory



Continue



Tool Types



Tool Catalog



Tool Locations



Tool Manufacturers



Transactions



Posting



Reporting



Remote Bar Code Transactions

PERCEPTION provides features for managing the shipyard's tool room.

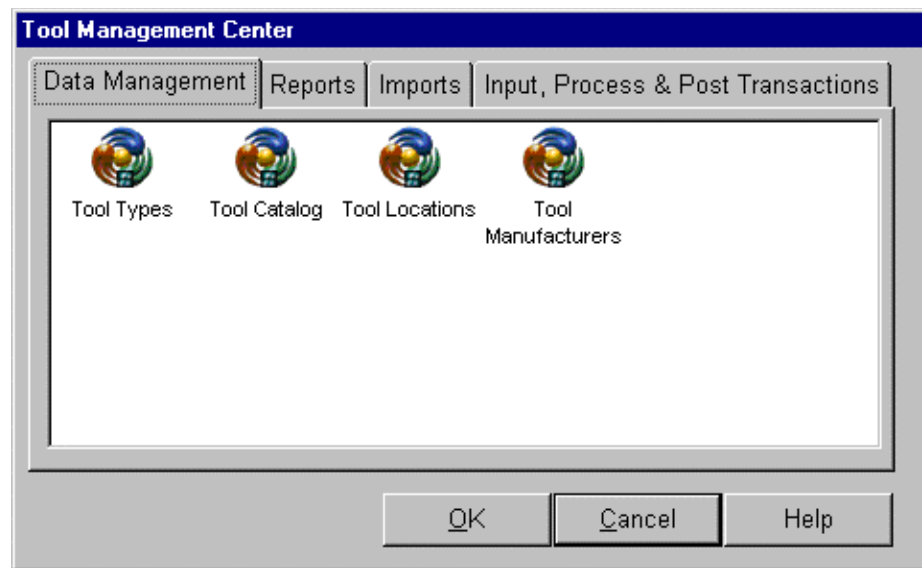
The system provides a tool room catalog where tools can be classified by type.

Tools then can be checked in and out.

Tools remaining checked out are tracked by the system.

To reach the system's tool management functions, click on *Environment/Stores Management/Tool Management Center* from the main menu.

The system will display the various features of the Tool Management Center:



The Tool Management Center window groups tool room functions into the following tab windows:

- 1. Data Management**
- 2. Reports**
- 3. Imports of data from remote bar code scanning devices**
- 4. Input, process & posting tool room usage transactions**

Note: The icons of the Tool Management Center can be exercised using a touch screen monitor by double “clicking” with the finger on the icon to open its window.

Data Management

Data Management provides all of the means for defining the tool catalog.

The Tool Catalog is the primary basis for defining the tools to be managed by the system.

There are supplemental database tables that can be used in the cataloging process.

The following describes these tables in more detail.

Tool Types (Optional)

The tool type allows the separation of tools into categories. Power drills, for example, may be broken down by the specification of a tool type: electric, or air powered.

Tool types enable the tool room manager to define tools under user-defined class categories. These categories can help the manager locate tools more easily on the database.

If tool types are to be used, they must be defined before the actual tools are defined on the database.

To open the Tool Type worksheet, double click on the Tool Type icon, and the system will display the worksheet:

| Types of Tools | | |
|----------------|-------------------------------|-------------------------------|
| | Tool Type | Tool Class |
| | | Heading |
| 1 | (NONE) | (NONE) |
| 2 | Blowers & Ventilators | Blowers & Ventilators |
| 3 | Calibration Equipment | Calibration Equipment |
| 4 | Caulking Guns | Caulking Guns |
| 5 | Combination Kits | Combination Kits |
| 6 | Compressors | Compressors |
| 7 | Dremel Tools | Dremel Tools |
| 8 | Drills | Cordless Drills |
| 9 | Drills | Drill Bit Indexes |
| 10 | Drills | Drill Bit Sharpeners |
| 11 | Drills | Drill Bits |
| 12 | Drills | Drill Presses |
| 13 | Drills | Electric Drills |
| 14 | Drills | Hammer Drills |
| 15 | Gauges & Monitoring Equipment | Gauges & Monitoring Equipment |
| 16 | Grinders & Scalers | Die Grinders |
| 17 | Grinders & Scalers | Pneumatic Grinders |
| 18 | Grinders & Scalers | Pneumatic Scalers |
| 19 | Hammers | Claw Hammers |
| 20 | Hammers | Demolition Hammers |
| 21 | Hammers | Rotary Hammers |
| 22 | Heat Guns | Heat Guns |
| 23 | Hoists & Lifts | Cherry Pickers |
| 24 | Hoists & Lifts | Electric Hoists |
| 25 | Hoists & Lifts | Fork Lifts |
| 26 | Hoists & Lifts | Hand, Chain, & Cable Hoists |
| 27 | Hoses | Hoses - Pneumatic |
| 28 | Hoses | Hoses - Water |
| 29 | Hoses | Hoses - Welding Gas |
| 30 | Measuring Devices | Levels |
| 31 | Measuring Devices | Squares |
| 32 | Measuring Devices | Tapes Measures |
| 33 | Multiple Tool Sets | Multiple Tool Sets |

The Tool Type worksheet carries the following information:

- 1. Tool Type (maximum 50 characters)**
- 2. Tool Class (maximum 50 characters)**
- 3. Tool Type Description (maximum 40 characters)**

The Tool Class is an optional sub-category of Tool Type.

The procedures for retrieving, adding, changing and deleting tool types are the same as outlined in *General System Operation*, “Getting Started With PERCEPTION.”

Tool Type data can be imported (see *Importing & Exporting Data*, “Getting Started With PERCEPTION).

Changing Tool Types

When a user changes a tool type, this change will have the effect of cascading that change throughout the system.

For example, changing a tool type of “ar” to “air” will update all tools identified by type “ar” to now be of type “air.”

Tool Catalog

The Tool Catalog is the database file where all tools are defined and managed by the system.

To open the Tool Catalog worksheet, double click on the Tool Catalog icon, and the system will display the worksheet:

| Tool Catalog | | | | | | |
|--------------|--------------------|---------------------|---------|---|---------------|-------|
| Tool ID | Tool Type | Tool Class | Part ID | Description | Serial Number | |
| TR-0001 | Multiple Tool Sets | Multiple Tool Sets | | 135 PC Tool Set w/Case | SER-0001 | A-108 |
| TR-0002 | Wrenches | Socket Wrenches | | Set, 75 PC Socket Tool Set | SER-0001 | A-108 |
| TR-0003 | Wrenches | Socket Wrenches | | Set, 20 PC 3/8" Drive Socket Wrenches | SER-0001 | A-108 |
| TR-0004 | Wrenches | Socket Wrenches | | Set, 121 PC Metric/Standard Combination Drive | SER-0001 | A-108 |
| TR-0005 | Wrenches | Flat Wrenches | | Combo Set, 12 PC Std/Metric wrench set | SER-0001 | A-108 |
| TR-0006 | Wrenches | Flat Wrenches | | Combo Set, 14 PC Std wrench set | SER-0001 | A-108 |
| TR-0007 | Wrenches | Flat Wrenches | | Combo Set, 14 PC Metric wrench set | SER-0001 | A-108 |
| TR-0008 | Wrenches | Flat Wrenches | | Combo Set 6 PC Std wrench set | | A-108 |
| TR-0009 | Wrenches | Flat Wrenches | | Combo Set, 6 PC Metric wrench set | | A-108 |
| TR-0010 | Wrenches | Flat Wrenches | | Gear, 5/16" Gear Wrench | | A-108 |
| TR-0011 | Wrenches | Flat Wrenches | | Open End, 3/8" x 7/16" wrench | | A-108 |
| TR-0012 | Wrenches | Flat Wrenches | | Combo, 7/16" Wrench | | A-108 |
| TR-0013 | Wrenches | Flat Wrenches | | Open End, 3/4" x 7/8" wrench | | A-108 |
| TR-0014 | Wrenches | Flat Wrenches | | Combo, 11/31" wrench | | A-108 |
| TR-0015 | Wrenches | Flat Wrenches | | Combo Set, 11 PC SAE wrench set | | A-108 |
| TR-0016 | Wrenches | Adjustable Wrenches | | Locking, 10" Adjustable Wrench | | A-108 |
| TR-0017 | Wrenches | Adjustable Wrenches | | Crescent, 4" Adjustable Wrench | | A-108 |
| TR-0018 | Wrenches | Adjustable Wrenches | | Crescent, 6" Adjustable Wrench | | A-108 |
| TR-0019 | Wrenches | Adjustable Wrenches | | Vise Grip, 10" Locking Wrench | | A-108 |
| TR-0020 | Measuring Devices | Tapes Measures | | Tape Rule, 1" x 25' Stanley | | A-108 |
| TR-0021 | Measuring Devices | Tapes Measures | | Tape Rule, 1" x 25' Stanley Powerlock | | A-108 |
| TR-0022 | Measuring Devices | Levels | | Level, aluminum 48" | | A-108 |
| TR-0023 | Measuring Devices | Levels | | Level, Stanley torpedo 8" | | A-108 |
| TR-0024 | Measuring Devices | Levels | | Level, aluminum 18" | | A-108 |

The following information initially defines each tool for cataloging onto the *PERCEPTION* database:

- **Tool ID** (maximum 50 characters)
- **Tool Type** (maximum 50 characters)
- **Tool Class** (maximum 50 characters)
- **Part ID** (maximum 25 characters)
- **Serial Number** (maximum 25 characters)
- **Description** (unlimited). When using Part ID from the Parts Catalog, the system will automatically insert the Parts Catalog description into the tool description. The user may then modify the description to suit a more appropriate description for the specific tool
- **Vendor ID** (maximum 8 characters) for purchasing a tool replacement
- **Manufacturer ID** (maximum 25 characters). The name of the manufacturer can be entered directly in this worksheet, or manufacturer names can be managed centrally in the Manufacturers worksheet
- **Purchase Cost**
- **Purchase Date**
- **Barcode Label** (maximum of 50 characters)

To uniquely identify each tool, the Tool ID for each must be unique.

The Part ID and Serial Number are optional.

The Part ID may be used for cataloging the tool in the Parts Catalog for re-purchasing standard items purposes.

Note: The *Barcode Label* is useful when pre-printed labels are used as an independent tool identifier.

This label must be unique for any tool managed on the database. It may be replaced with another label without losing existing tool information.

All *check-out and check-in transactions require the Bar Code Label be identified for the tool being processed.*

The worksheet also provides current status of the tool:

- 1. Current Status (In, Out, Lost, Damaged, or Inactive)**
- 2. Date of Status**
- 3. Current Location (Optional)**
- 4. Last User**
- 5. Last Date Used**

The Current Status, Date of Status, Current Location, Last User, and Last Date Used are all data provided when tool check-in/check-out transactions are entered into the system.

Tool Locations (Optional)

The Tool Locations is the database file where all locations for tools are defined and managed by the system.

Locations include both where the tools are stored in the tool room and where the tools are destined when checked out.

To open the Tool Location worksheet, double click on the Tool Location icon, and the system will display the worksheet:

| \$ Tool Worksheet | | |
|-------------------|---------------|------------------------|
| | Tool Location | Heading |
| 1 | Berth | Building Berth |
| 2 | Off Site | |
| 3 | Outfit Shop | Outfit Shop |
| 4 | Outside | Outside Equipment Area |
| 5 | Tool Room #1 | Main Stores |
| 6 | Tool Room #2 | Electronics Room |

Location data can be imported (see *Importing & Exporting Data*, “*Getting Started With PERCEPTION*”).

Note: Tool locations also will be added to this table automatically by the system when newly defined either in the Tool Catalog with the tool, or with a check-in/check-out transaction.

Tool Manufacturers

The Tool Manufacturers is the database file where all manufacturers for tools are defined and managed by the system.

To open the Tool Manufacturers worksheet, double click on the Tool Manufacturers icon, and the system will display the worksheet:

| \$ Tool Manufacturers | | |
|-----------------------|----------------|----------------|
| | Manufacturer | Heading |
| 1 | Black & Decker | Black & Decker |
| 2 | Stanley | Stanley |

Manufacturer data can be imported (see *Importing & Exporting Data, “Getting Started With PERCEPTION*).

Tool Transactions

The transactions supported by the tool room are:

1. Check-Out tool to user
2. Check-In tool from user

There are two methods for entering tool room issue and receiving transactions:

1. Direct manual entries into the transaction worksheet
2. Imported transactions from remote bar code data files

Direct (Manual) Tool Room Transactions

Direct or manual entries of tool room transactions are made into the Tool Transaction Posting worksheet.

| \$ Tool Transaction Posting | | | | | | | | |
|-----------------------------|------------|---------|-----------|--------------|------------|------------|----------|---------|
| | Trans Code | Tool ID | Badge Num | Location | Trans Date | Trans Time | Comments | Transac |
| 1 | TWDRW | TR-0007 | 15 | Outfit Shop | 08/03/2001 | 10:19 AM | | 08/ |
| 2 | TRECV | TR-0007 | | Tool Room #1 | 08/03/2001 | 10:24 AM | | 08/ |
| 3 | TWDRW | TR-0001 | 12345 | Off Site | 08/03/2001 | 10:24 AM | | 08/ |
| 4 | TWDRW | TR-0004 | 15 | Berth | 08/03/2001 | 10:27 AM | | 08/ |

Each transaction must be coded as follows:

- 1. TWDRW for tool checkouts (withdraws)**
- 2. TRECV for tool returns (receiving)**

At a minimum, each transaction must record the following information:

- 1. Transaction Code (TWDRW or TRECV)**
- 2. Tool ID for the tool defined on the Tool Catalog**
- 3. Badge Number of the person being issued the tool.**

If a tool return transaction, entry of the badge number is optional

Note: Tool Checkout transactions require the badge number of the person being issued the tool.

This badge number must be valid (and active) on the system's employee file (*Environment/Accounting/Employees*).

Other information also may be provided:

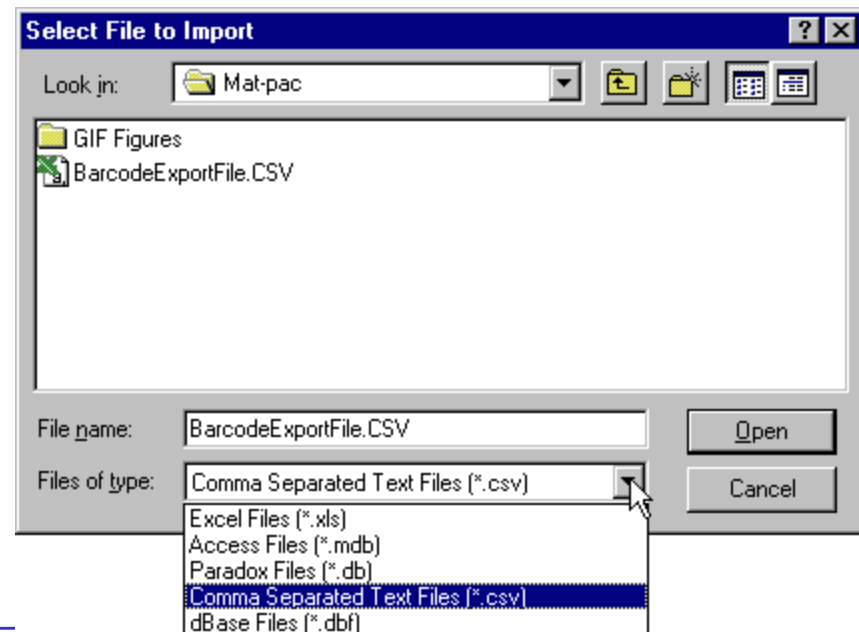
- 1. Location where the tool is being issued or where it is being stored in the tool room facility**
- 2. Comments as necessary**

Imported Tool Room Transactions

To import transactions from an external file, click on the *Imports* tab of the Tool Room Management Center.

The system will provide the window for the user to select the import file in the network directories.

The system accommodates several types of files for importing.



After the user has identified and opened the import file, the system will display the data-mapping window:

The mapping process allows the user to identify columns of the imported data file with columns in the Tool Room Transaction worksheet.

| Transfer Column Data From | Transfer Column Data Into |
|---------------------------|---------------------------|
| 1 Field 1 | Transaction Code |
| 2 Field 2 | Badge Num |
| 3 Field 3 | Part Number |
| 4 Field 4 | NOT Transferred |
| 5 Field 5 | NOT Transferred |
| 6 Field 6 | Transaction Code |
| 7 Field 7 | Badge Num |

| Field 1 | Field 2 | Field 3 | Field 4 | Field 5 | Field 6 | Field 7 |
|---------|---------|---------|---------|---------|--------------|---------|
| TWDR | 2408 | BT1200 | | WS | 109/06/2001 | |
| TWDR | 2408 | WS0001 | | WS | 109/06/2001 | |
| TRECV | | WS0001 | | WS | -109/06/2001 | |
| TRECV | | BT1200 | | WS | -109/06/2001 | |
| TWDR | 4031 | RAT1200 | | WS | 109/06/2001 | |

Options

☒ Add Rows ☐ Include Globals ☐ Save Column Map
☐ Update Rows ☐ Add Upper Level ☐ Clear Column Map
☐ Add/Update

OK Cancel Help

If the import file is expected to remain unaltered thereafter, the user can save this mapping by clicking on the *Save Column Map* box in this mapping window.

Note: The imported information required by the system is the same as required for the direct data entry method.

When the mapping is complete, click on the *OK* button. The system will proceed to import the transactions.

Click on the *Save* button on the toolbar, and the system will save all imported transactions to the same file as the direct transaction entries described in “Direct Tool Room Transactions.”

Since all transactions are stored on the same file, the user can retrieve them into the direct Tool Room Transaction worksheet.

Posting Transactions

The system requires formal posting of tool room transactions, both direct and imported.

The posting process performs a data validation of the transactions to help ensure correct information is being entered.

The system color-codes each transaction as follows:

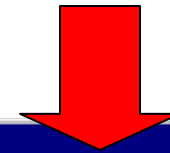
1. Gray - un-posted and non-validated transaction
2. Red - un-posted and determined to have errors
3. Green - posted and successfully validated transaction

To perform the posting process, highlight one or more transactions in the worksheet.

Then click on *Edit/Post Selected Transactions* from the main menu.

When the validation process has been completed, the color-coding will be initiated.

The transactions found in error will be **color-coded red** and the system will provide for the user appropriate errors messages.



| \$ Tool Transaction Posting | | | | | | | |
|-----------------------------|----------|---------------------|------------|-------------|-------------|--|--------|
| me | Comments | Transaction Created | Created By | Posted Flag | Date Posted | Error Message | Import |
| M | | 08/03/2001 | spar | Yes | 08/03/2001 | | |
| M | | 08/03/2001 | spar | No | 00/00/0000 | | |
| M | | 08/03/2001 | spar | No | 00/00/0000 | No employee has the badge number speci | |
| M | | 08/03/2001 | spar | Yes | 08/03/2001 | | |
| M | | 08/03/2001 | spar | No | 00/00/0000 | This tool is not available for usage. | |

**Note: Transactions that have been
successfully posted cannot be modified.**

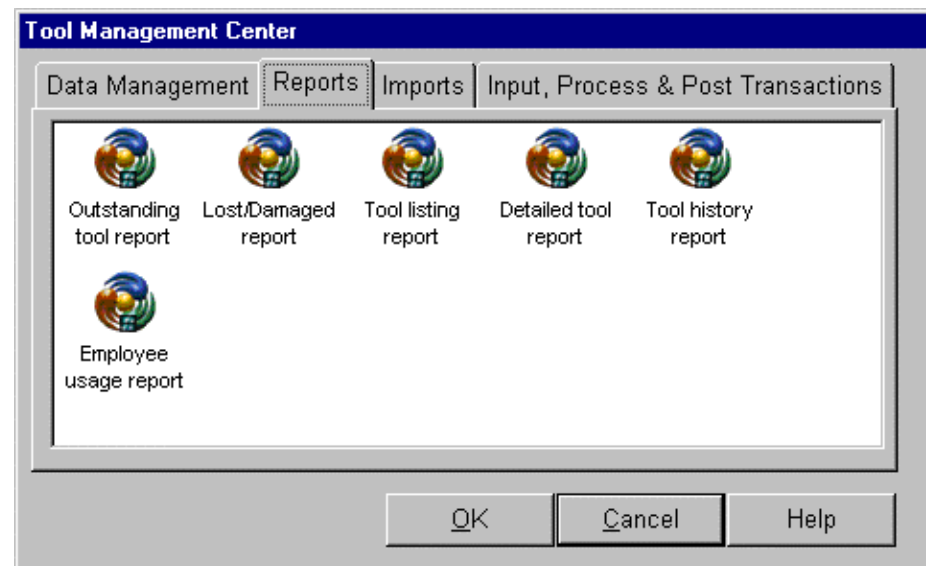
**Successfully posted transactions will not
be re-posted by the system.**

Tool Room Reports

The Tool Management Center offers a selection of reports that track tools and their status in the system.

Each report provides a selection window so that the user can narrow down the reported information to only those transactions that are of most interest.

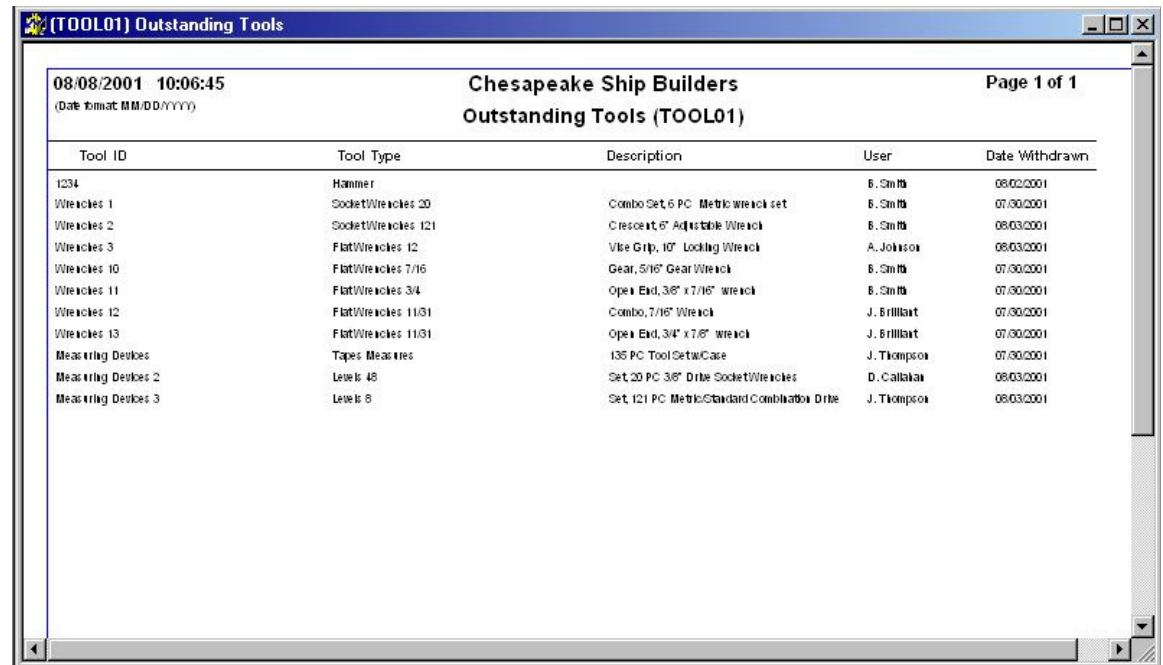
The user can generate these reports by clicking on the *Reports* tab of the Tool Management Center and then by clicking on the icon of the specific report of interest.



Outstanding Tools Report

The Outstanding Tool Report lists tools remaining checked-out and allows query by:

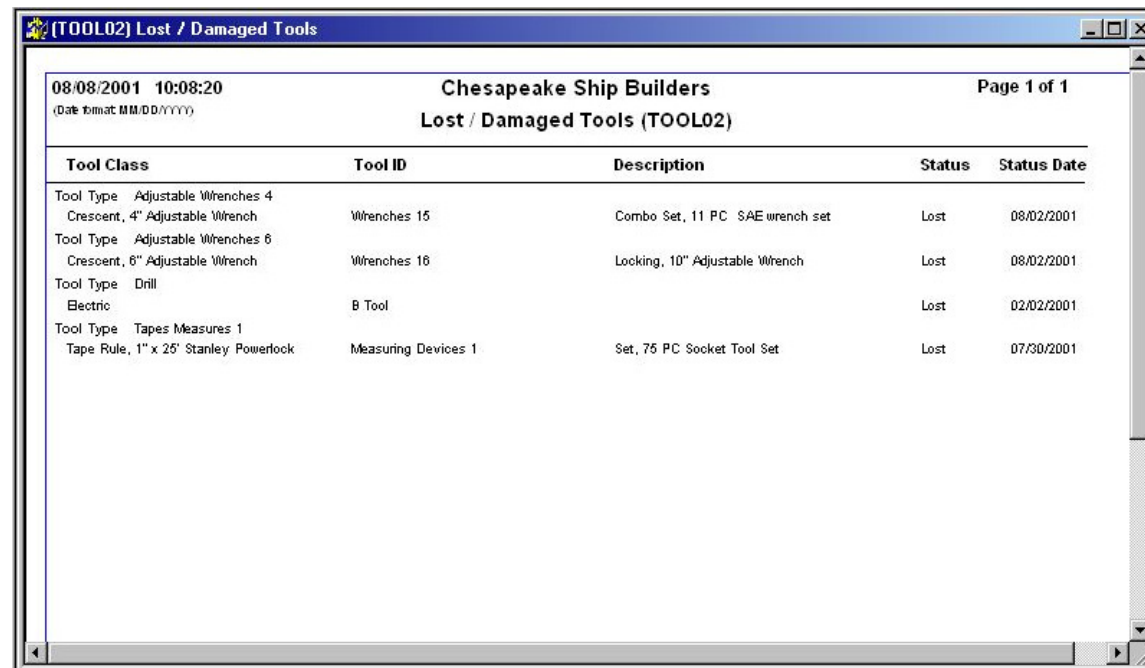
1. Tools
2. Users
3. Usage Locations



| Tool ID | Tool Type | Description | User | Date Withdrawn |
|---------------------|---------------------|---|--------------|----------------|
| 1234 | Hammer | | B. Smith | 08/02/2001 |
| Wrenches 1 | Socket/Wrenches 20 | Combo Set, 6 PC Metric wrench set | B. Smith | 07/30/2001 |
| Wrenches 2 | Socket/Wrenches 121 | Crescent, 6" Adjustable Wrench | B. Smith | 08/03/2001 |
| Wrenches 3 | Flat/Wrenches 12 | Vise Grip, 10" Locking Wrench | A. Johnson | 08/03/2001 |
| Wrenches 10 | Flat/Wrenches 7/16 | Gear, 5/16" Gear Wrench | B. Smith | 07/30/2001 |
| Wrenches 11 | Flat/Wrenches 3/4 | Open End, 3/8" x 7/16" wrench | B. Smith | 07/30/2001 |
| Wrenches 12 | Flat/Wrenches 11/31 | Combo, 7/16" Wrench | J. Brilliant | 07/30/2001 |
| Wrenches 13 | Flat/Wrenches 11/31 | Open End, 3/4" x 7/8" wrench | J. Brilliant | 07/30/2001 |
| Measuring Devices | Tapes Measures | 135 PC Tool Set w/Case | J. Thompson | 07/30/2001 |
| Measuring Devices 2 | Levels 48 | Set, 20 PC 3/8" Drive Socket/Wrenches | D. Callahan | 08/03/2001 |
| Measuring Devices 3 | Levels 8 | Set, 121 PC Metric/Standard Combination Drive | J. Thompson | 08/03/2001 |

Lost & Damaged Tools Report

The Lost or Damaged Tool Report lists tools flagged by the user as lost or damaged and allows query by tool classification.



08/08/2001 10:08:20
(Date format: MM/DD/YYYY)

Chesapeake Ship Builders
Lost / Damaged Tools (TOOL02)

Page 1 of 1

| Tool Class | Tool ID | Description | Status | Status Date |
|---|---------------------|---------------------------------|--------|-------------|
| Tool Type Adjustable Wrenches 4 Crescent, 4" Adjustable Wrench | Wrenches 15 | Combo Set, 11 PC SAE wrench set | Lost | 08/02/2001 |
| Tool Type Adjustable Wrenches 6 Crescent, 6" Adjustable Wrench | Wrenches 16 | Locking, 10" Adjustable Wrench | Lost | 08/02/2001 |
| Tool Type Drill Electric | B Tool | | Lost | 02/02/2001 |
| Tool Type Tapes Measures 1 Tape Rule, 1" x 25' Stanley Powerlock | Measuring Devices 1 | Set, 75 PC Socket Tool Set | Lost | 07/30/2001 |

Tool Listing Report

The Tool Listing Report produces hard copies of the Tool Catalog.

| (TOOL03) Tool Listing With Cost | | | | | | | |
|---|------------------------------------|---|---------------------------------------|--------|--------|-------------|---------------|
| 08/08/2001 10:04:11 (Date format MM/DD/YYYY) | | Chesapeake Ship Builders Tool Listing With Cost (TOOL03) | | | | Page 1 of 2 | |
| Tool ID | Tool Class | Part ID | Description | Vendor | Status | Cost | Purchase Date |
| Tool Type (NONE) | | | | | | | |
| Test Tool | (NONE) | TR-0007 | Combo Set, 14 PC Metric Wrench set | A108 | In | 20.73 | 07/00/2001 |
| Tool Type Adjustable Wrenches 10 | | | | | | | |
| Wrenches 14 | Locking, 10" Adjustable Wrench | TR-0014 | Combo, 11/31" Wrench | A108 | In | 4.79 | 07/00/2001 |
| Wrenches 17 | Vise Grip, 10" Locking Wrench | TR-0017 | Crescent, 4" Adjustable Wrench | A108 | In | 14.88 | 07/00/2001 |
| Tool Type Adjustable Wrenches 4 | | | | | | | |
| Wrenches 15 | Crescent, 4" Adjustable Wrench | TR-0015 | Combo Set, 11 PC SAE Wrench set | A108 | Lost | 17.99 | 07/00/2001 |
| Tool Type Adjustable Wrenches 6 | | | | | | | |
| Wrenches 16 | Crescent, 6" Adjustable Wrench | TR-0016 | Locking, 10" Adjustable Wrench | A108 | Lost | 28.04 | 07/00/2001 |
| Tool Type Flat Wrenches 11/31 | | | | | | | |
| Wrenches 12 | Combo, 11/31" Wrench | TR-0012 | Combo, 7/16" Wrench | A108 | Out | 5.99 | 07/00/2001 |
| Wrenches 13 | Combo Set, 11 PC SAE Wrench set | TR-0013 | Open End, 3/4" x 7/8" Wrench | A108 | Out | 5.99 | 07/00/2001 |
| Tool Type Flat Wrenches 12 | | | | | | | |
| Wrenches 3 | Combo Set, 12 PC Std Metric Wrench | TR-0019 | Vise Grip, 10" Locking Wrench | A108 | Out | 16.85 | 07/00/2001 |
| Tool Type Flat Wrenches 14 | | | | | | | |
| Wrenches 4 | Combo Set, 14 PC Std Wrench set | TR-0020 | Tape Rule, 1' x 25" Stanley | A108 | In | 15.99 | 07/00/2001 |
| Tool Type Flat Wrenches 14A | | | | | | | |
| Wrenches 5 | Combo Set, 14 PC Metric Wrench set | TR-0021 | Tape Rule, 1' x 25" Stanley Powerlock | A108 | In | 16.40 | 07/00/2001 |
| Tool Type Flat Wrenches 3/4 | | | | | | | |
| Wrenches 11 | Open End, 3/4" x 7/8" Wrench | TR-0011 | Open End, 3/8" x 7/16" Wrench | A108 | Out | 3.49 | 07/00/2001 |
| Tool Type Flat Wrenches 5/16 | | | | | | | |

Detail Tool Report

The Detailed Tool Report provides a basic description of the tool, its serial number, etc

| (TOOL04) Detailed Tool Listing | | | | | | | | |
|--|---|---------|--|----------|----------------|--------|-------------|------------|
| 08/08/2001 10:10:09 (Date format: MM/DD/YYYY) | | | Chesapeake Ship Builders Detailed Tool Listing (TOOL04) | | | | Page 2 of 2 | |
| Tool ID | Tool Class | Part ID | Vendor | Location | Manufacturer | Status | Last User | Last Used |
| Tool Type Flat/Wrenches 6A | | | | | | | | |
| Wrenches 7 | Combo Set, 6 PC Metric wrench set | TR-0023 | A108 | Demo | Black & Decker | In | J. Thompson | 07/30/2001 |
| Wrenches 71 | Combo Set, 6 PC Metric wrench set | TR-0023 | A108 | Demo | Black & Decker | In | J. Thompson | 07/30/2001 |
| Tool Type Flat/Wrenches 7/16 | | | | | | | | |
| Wrenches 10 | Combo, 7/16" Wrench | TR-0010 | A108 | A181 | Black & Decker | Out | B. Smith | 07/30/2001 |
| Tool Type Hammer | | | | | | | | |
| 1234 | Hand | A | dlaa | Demo | Black & Decker | Out | B. Smith | 08/02/2001 |
| Tool Type Levels 18 | | | | | | | | |
| Measuring Devices 4 | Level, aluminum 18" | TR-0005 | A108 | A282 | Black & Decker | In | J. Thompson | 08/03/2001 |
| Tool Type Levels 48 | | | | | | | | |
| Measuring Devices 2 | Level, aluminum 48" | TR-0003 | A108 | A181 | Tom Tom | Out | D. Callahan | 08/03/2001 |
| Tool Type Levels 8 | | | | | | | | |
| Measuring Devices 3 | Level, Stanley torpedo 8" | TR-0004 | A108 | A282 | Black & Decker | Out | J. Thompson | 08/03/2001 |
| Tool Type Multiple Tool Set | | | | | | | | |
| Multiple Tool Set | 135 PC Tool Set w/Case | TR-0006 | A108 | A282 | Black & Decker | In | T. Smith | 08/03/2001 |
| Tool Type Paint Roller | | | | | | | | |
| 12345 | Paint | | dlaa | A282 | Black & Decker | In | | 00.00.0000 |
| Tool Type Socket/Wrenches 121 | | | | | | | | |
| Wrenches 2 | Set, 121 PC Metric/Standard Combination 1 | TR-0018 | A108 | A282 | Black & Decker | Out | B. Smith | 08/03/2001 |
| Tool Type Socket/Wrenches 20 | | | | | | | | |
| Wrenches 1 | Set, 20 PC 3/8" Drive Socket/Wrenches | TR-0009 | A108 | A181 | Black & Decker | Out | B. Smith | 07/30/2001 |
| Tool Type Socket/Wrenches 75 | | | | | | | | |

Tool History Report

The Tool History Report lists all transactions logged for the tool, but allows query by:

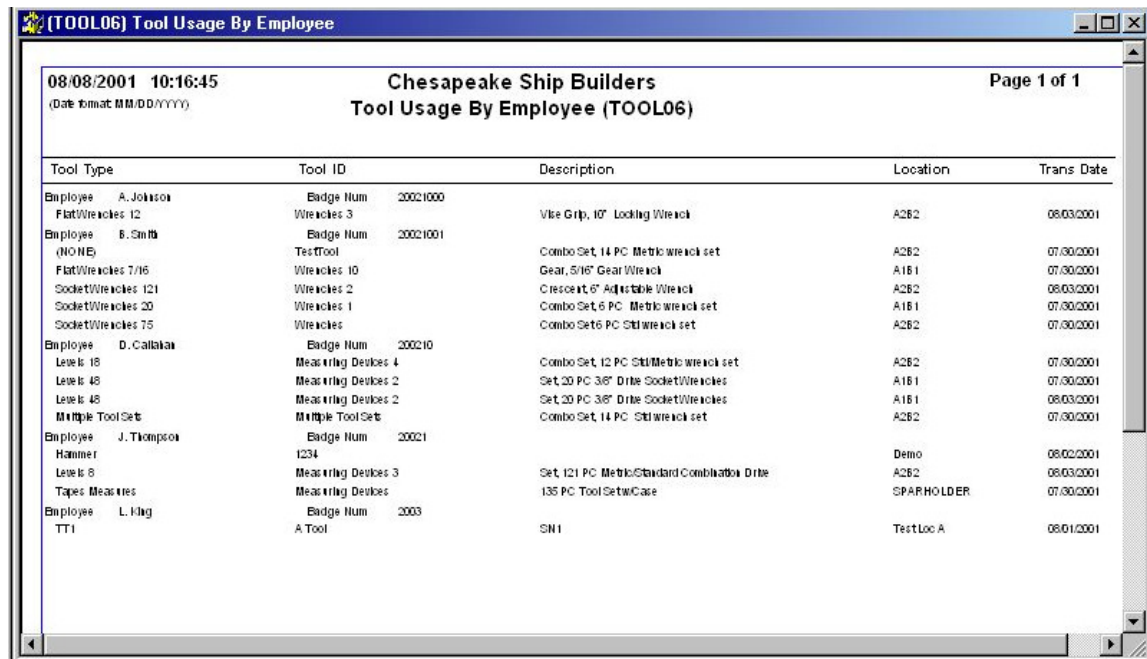
- Date range
- Tools
- Users

| (TOOL05) Tool History | | | |
|--|-----------|--|------------------|
| 08/08/2001 10:15:16 (Date format: MM/DD/YYYY) | | Chesapeake Ship Builders Tool History Report (TOOL05) | |
| Page 1 of 1 | | | |
| Trans CODE | Badge Num | Location | Transaction Date |
| Tool Type Adjustable Wrenches 10 Tool Class Locking, 10" Adjustable Wrench | | | |
| Tool ID Wrenches 14 | | | |
| TRECV | 200210 | SPARHOLDER | |
| Tool Type Hammer Tool Class Hand | | | |
| Tool ID 1234 | | | |
| TWDRW | 20021 | Demo | 08/02/2001 |
| Tool Type Levels 18 Tool Class Level, aluminum 18" | | | |
| Tool ID Measuring Devices 4 | | | |
| TWDRW | 200210 | A1B1 | 07/30/2001 |
| TRECV | 20021 | A2B2 | 08/03/2001 |
| Tool Type Levels 48 Tool Class Level, aluminum 48" | | | |
| Tool ID Measuring Devices 2 | | | |
| TWDRW | 200210 | SPARHOLDER | 07/30/2001 |
| TWDRW | 200210 | A1B1 | 08/03/2001 |
| Tool Type Levels 8 Tool Class Level, Stanley torpedo 8" | | | |
| Tool ID Measuring Devices 3 | | | |
| TWDRW | 200210 | A1B1 | 07/30/2001 |
| TWDRW | 20021 | A2B2 | 08/03/2001 |
| TRECV | 200210 | A2B2 | 08/03/2001 |
| Tool Type Multiple Tool Cates Tool Class 125 BC Tool Cate/Spec | | | |

Employee Usage Report

The Employee Usage Report lists all tool usage transactions by employee, but allows query by:

1. Employee
2. Date range



| Tool Type | Tool ID | Description | Location | Trans Date |
|----------------------|---------------------|---|-------------|------------|
| Employee A. Johnson | Badge Num 20021000 | | | |
| FlatWrenches 12 | Wrenches 3 | Vise Grip, 10" Locking Wrench | A2B2 | 08/03/2001 |
| Employee B. Smith | Badge Num 20021001 | | | |
| (NONE) | TestTool | Combo Set, 14 PC Metric wrench set | A2B2 | 07/30/2001 |
| FlatWrenches 7/16 | Wrenches 10 | Gear, 5/16" Gear Wrench | A1B1 | 07/30/2001 |
| Socket/Wrenches 121 | Wrenches 2 | Crescent, 6" Adjustable Wrench | A2B2 | 08/03/2001 |
| Socket/Wrenches 20 | Wrenches 1 | Combo Set, 6 PC Metric wrench set | A1B1 | 07/30/2001 |
| Socket/Wrenches 75 | Wrenches | Combo Set, 6 PC Std wrench set | A2B2 | 07/30/2001 |
| Employee D. Callahan | Badge Num 200210 | | | |
| Leads 18 | Measuring Devices 4 | Combo Set, 12 PC Std/Metric wrench set | A2B2 | 07/30/2001 |
| Leads 48 | Measuring Devices 2 | Set, 20 PC 3/8" Drive Socket/Wrenches | A1B1 | 07/30/2001 |
| Leads 48 | Measuring Devices 2 | Set, 20 PC 3/8" Drive Socket/Wrenches | A1B1 | 08/03/2001 |
| Multiple Tool Set | Multiple Tool Set | Combo Set, 14 PC Std wrench set | A2B2 | 07/30/2001 |
| Employee J. Thompson | Badge Num 20021 | | | |
| Hammer | 1234 | | Demo | 08/02/2001 |
| Leads 8 | Measuring Devices 3 | Set, 121 PC Metric/Standard Combination Drive | A2B2 | 08/03/2001 |
| Tapes Measures | Measuring Devices | 135 PC Tool Set/Case | SPAR HOLDER | 07/30/2001 |
| Employee L. King | Badge Num 2003 | | | |
| TT1 | A Tool | SN1 | TestLoc A | 08/01/2001 |

Tool Room Remote Bar Code Transactions

The following describes the requirements for a remote bar code scanning device that is capable of generating the above transactions in a bulk data file that can be uploaded to the server and which then can be processed by *PERCEPTION*.

To support a bulk import of the data from these tool room transactions into PERCEPTION, the bar code scanner must create a file containing the following fields as a minimum of information:

- 1. Action – (Check In or Check Out)**
- 2. User**
- 3. Tool Bar Code Label**
- 4. Date**
- 5. Time**

It should also be noted that for the check-in process, the user is irrelevant.

The system will determine who checked the tool out via query of its own table structure.

As with the other imports, this data is brought into the system and staged into a table to allow for data correction and error recovery in a reasonable fashion.